



OCS  
No. 68  
DES  
1982  
V. 2

DEPARTMENT OF THE INTERIOR

# ENVIRONMENTAL IMPACT STATEMENT

BUREAU OF LAND MANAGEMENT  
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Denver Service Center

PROPOSED

1982 OUTER CONTINENTAL SHELF OIL AND GAS

LEASE SALE OFFSHORE SOUTHERN CALIFORNIA

OCS SALE NO. 68 VOLUME 2 OF 2

Prepared by

Bureau of Land Management  
Dept. of the Interior

BLM-YN-ES-81-001-1792

1981

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195  
.P4  
C3462  
1982  
v.2



Final Environmental Impact Statement  
Proposed 1982 Outer Continental Shelf Oil and Gas Lease Sale No. 68  
Offshore Southern California

ERRATA SHEET FOR LARGE COLOR VISUAL

The bar scale shown is for 1:1,000,000. Attach correct 1:500,000 bar scale (enclosed) over scale on visual.

The correct spelling of San Nicholas and Cortez are San Nicolas and Cortes, respectively, as per the U.S. Board on Geographic Names.

The positioning of the Channel Island National Marine Sanctuary boundary and of the shipping lanes are approximate.

Platforms and pipelines are shown on the Transportation Visual.

Tract 336 should be colored lime green, the same as other existing leases.

The tract at 52N-63W is mistakenly colored purple. It should be colored lime green as it is part of existing Lease OCS-P-166.

The shoreline was omitted around Begg Rock.

The following two map grid systems are used to designate tracts.

State Plane System

Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6 have X origin=2,000,000 at 116°15' and Y origin=0.00 at 32°10'. The identification of the State Plane blocks are based on the numerical sequence N (north) starting at Y origin and the numerical sequence W (west) starting at the central meridian; example: Block 26N-82W. Each regular block in the State Plane System contains 5,760 acres.

Universal Transverse Mercator (UTM) System

The boundaries of the regular UTM blocks are 4,800 international meters on a side and contain 2,304 hectares. The regular boundaries are defined in terms of X and Y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid of 1866.

The blocks are numbered starting with the first tier northerly of the equator as "N 1". The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100". Thus, a block numbered "N 200-E 96" would be the 200th block northerly of the equator and the fifth block of the central meridian of the respective UTM zone.

Color misregistration during printing resulted in shifting of State leases to the north, and double or triple colors at symbols.

Numerous blemishes due to printing also occurred such as the green line at 21,22N-54W and the white spot at 11N-42W.

(over)

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## Legend

### Change:


"Proposed tracts" should be "Proposed Sale No. 68 tracts".

"Sale No. 68 tracts assigned..." should be "Proposed Sale No. 68 tracts assigned...".

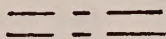
"Channel Islands Marine Sanctuary" should be "Channel Islands National Marine Sanctuary".

"Federal Ecological Preserve" should be "Santa Barbara Channel Ecological Preserve".

"Federal Ecological Preserve Buffer Zone" should be "Adjunct to the Santa Barbara Channel Ecological Preserve (Buffer Zone)".

The symbol for sewer outfalls should be  (green)

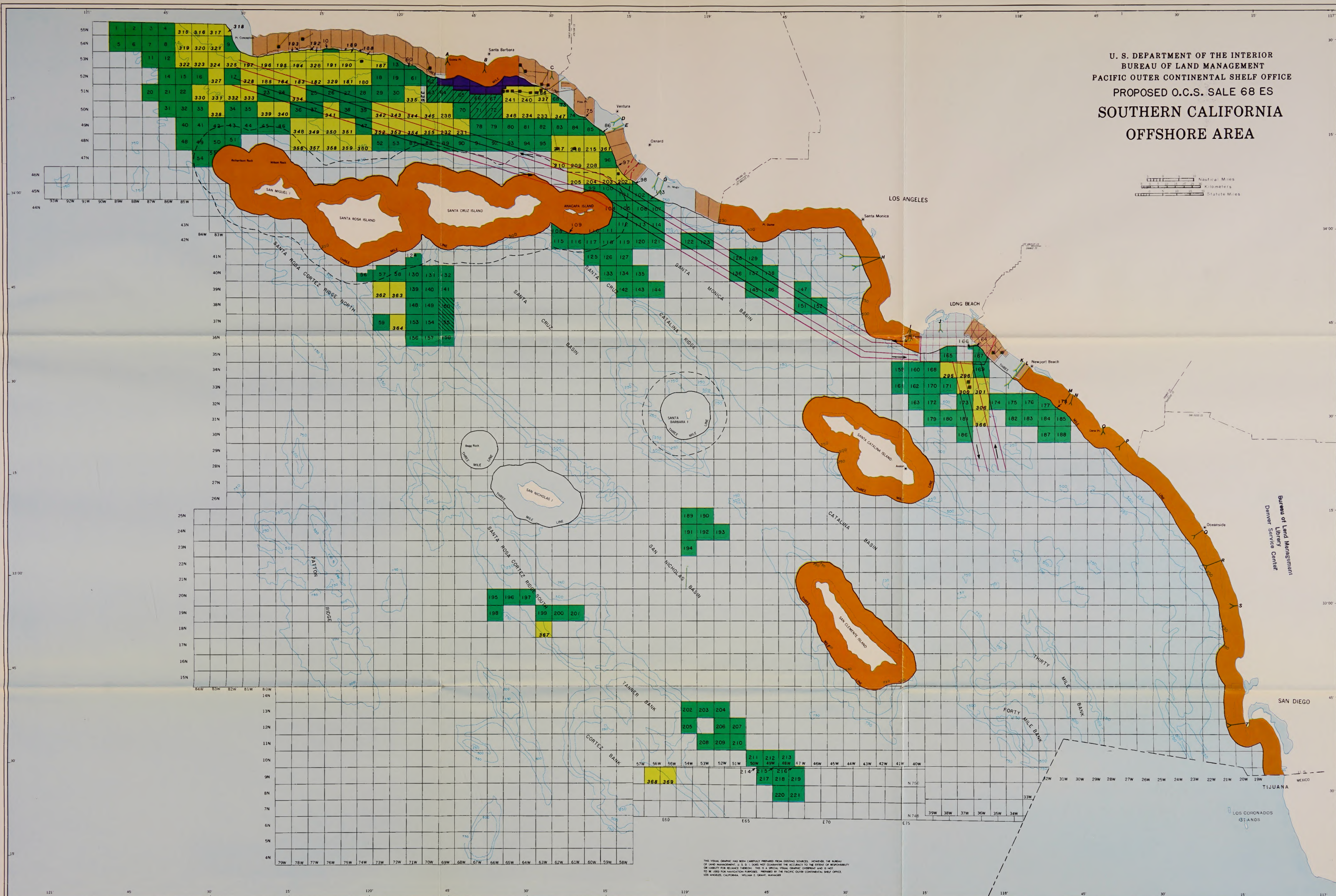
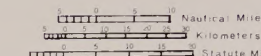
The letters A through T refer to the sewage dischargers.

Add:  (red) Port Hueneme Safety Fairway.

November, 1981

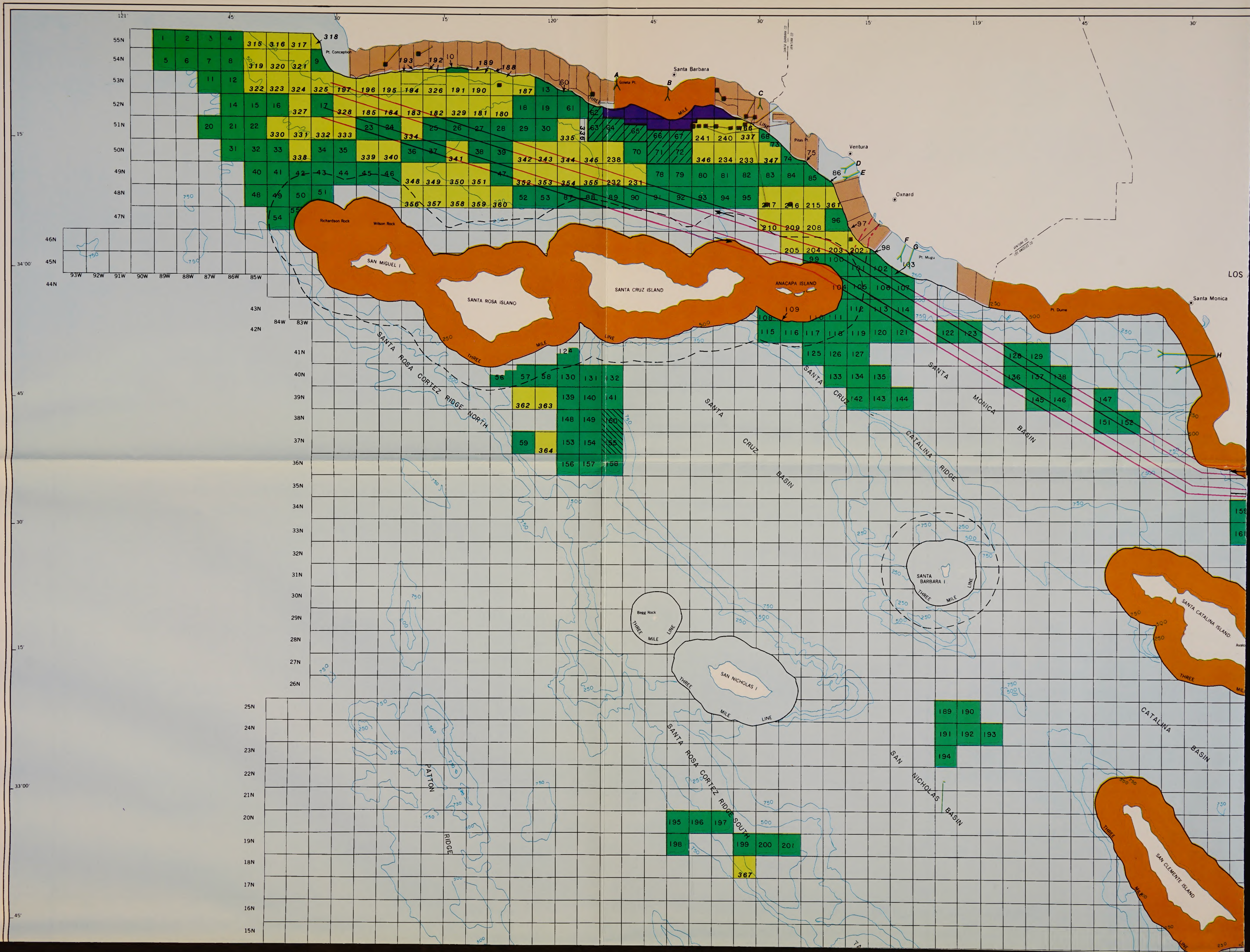


U. S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE  
PROPOSED O.C.S. SALE 68 ES  
SOUTHERN CALIFORNIA  
OFFSHORE AREA



- EXISTING LEASES
- PROPOSED TRACTS
- STATE LEASES
- SALE #68 TRACT ASSIGNED TO EXISTING LEASE
- STATE OIL AND GAS SANCTUARY
- CHANNEL ISLANDS MARINE SANCTUARY
- FEDERAL ECOLOGICAL PRESERVE
- FEDERAL ECOLOGICAL PRESERVE BUFFER ZONE
- COUNTY BORDERS
- TRAFFIC SEPARATION SCHEME
- DESIGNATED PRECAUTIONARY AREA
- EXISTING PLATFORMS
- EXISTING PIPELINES
- A SEWER OUTFALLS
- 500 BATHYMETRY (DEPTH IN METERS)







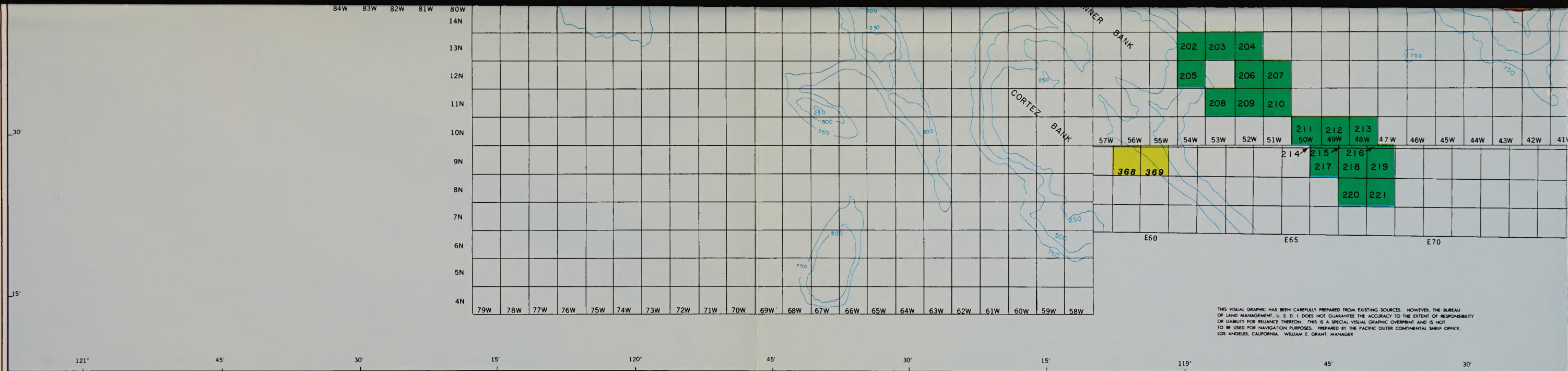
5 0 5 10 Nautical Miles

5 0 5 10 15 20 25 30 Kilometers

0 5 10 15 20 Statute Miles

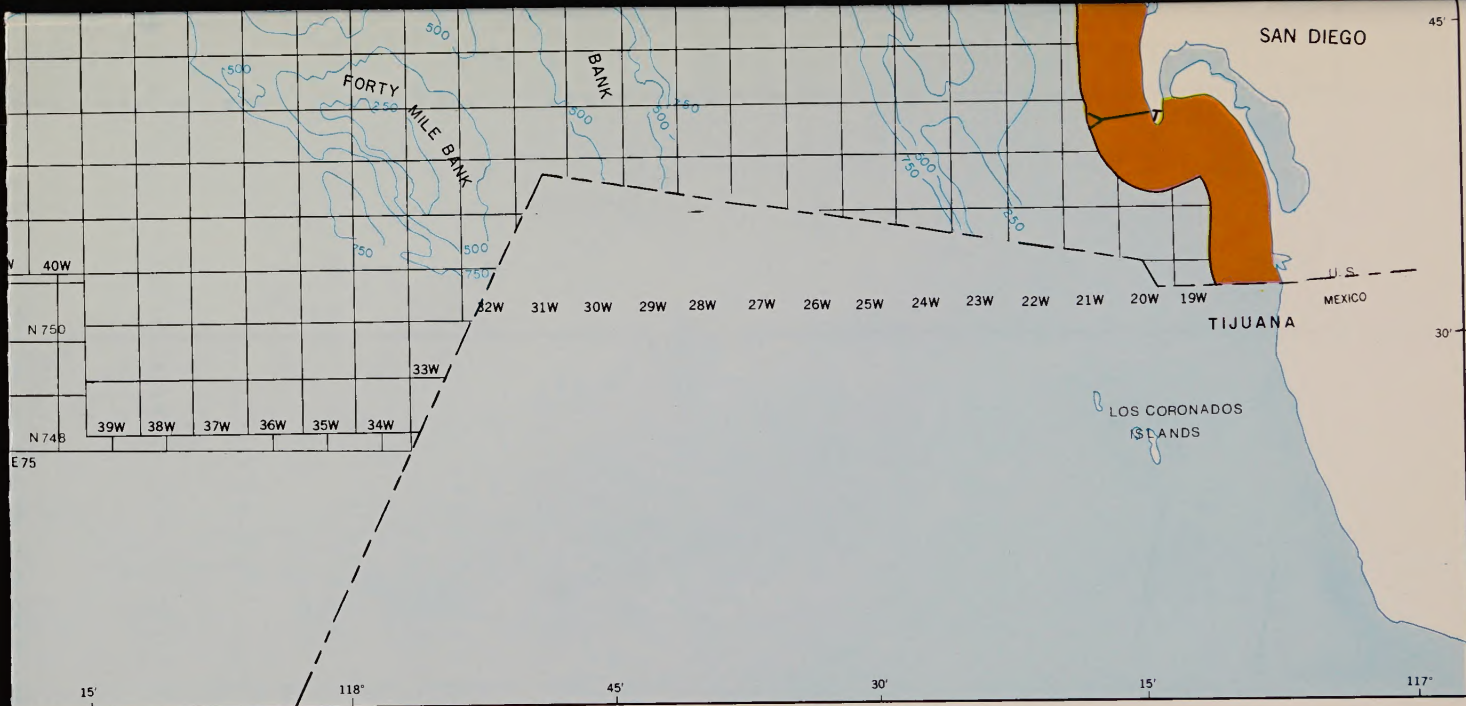






THIS VISUAL GRAPHIC HAS BEEN CAREFULLY PREPARED FROM EXISTING SOURCES. HOWEVER, THE BUREAU OF LAND MANAGEMENT, U. S. D. I. DOES NOT GUARANTEE THE ACCURACY TO THE EXTENT OF RESPONSIBILITY OR LIABILITY FOR RELIANCE THEREON. THIS IS A SPECIAL VISUAL GRAPHIC OVERPRINT AND IS NOT TO BE USED FOR NAVIGATION PURPOSES. PREPARED BY THE PACIFIC OUTER CONTINENTAL SHELF OFFICE, LOS ANGELES, CALIFORNIA. WILLIAM E. GRANT, MANAGER





EXISTING PLATFORMS

EXISTING PIPELINES

A SEWER OUTFALLS

500 BATHYMETRY (DEPTH IN METERS)

BLM-YN-ES-81-001-1792



MUNICIPAL WASTE WATER DISCHARGES TO  
SOUTHERN CALIFORNIA COASTAL WATERS, 1971

Discharger						Discharger					
			Ocean Outfall						Ocean Outfall		
Map	Name	Flow	Type of	Length	Depth	Map	Name	Flow	Type of	Length	Depth
Ltrs.		(mgd)	Treatment	(m)	(m)	Ltrs.		(mgd)	Treatment	(m)	(m)
A	Goleta San. Dist.	5.0	Primary	1,800	28	J	City of Los Angeles				
B	City of Santa Barbara	8.0	Primary	1,100	14		Terminal Island	8.1	Primary	730	18
	Montecito San. Dist.	0.8	Secondary	440	11		Sunset Bch. San. Dist.	0.2	Primary	520	
	Summerland San. Dist.	0.1	Secondary	240	6		Orange Co. San. Dist.			8,300	60
C	Carpinteria San. Dist.	1.3	Secondary	920	9	K	Plant No. 1	45.0	Primary		
								10.0	Secondary		
D	City of San Buenaventura					L	Plant No. 2	75.0	Primary		
	Seaside Plant	2.7	Primary	800	11						
E	Eastside Plant	4.0	Secondary			M	City of Laguna Bch.	2.3	Primary	980	25
F	Port Hueneme San. Dist.	3.5	Primary	1,900	18	N	So. Laguna Bch. San. Dist.	1.2	Secondary	520	18
G	City of Oxnard	12.0	Primary	1,750	16	O	Dana Point San. Dist.	2.3	Secondary	1,200	12
						P	City of San Clemente	1.8	Secondary	210	9
H	City of Los Angeles					Q	City of Oceanside	4.0	Secondary		
	Hyperion Plant	235.0	Primary	8,000	60				Oxidation		
		100.0	Secondary	(effluent)					Pond		
		5.0	Primary	11,000	100						
				(sludge)		R	County of San Diego				
							Encina (Vista-Carlsbad)	4.7	Primary	5,300	30
I	Los Angeles Co. San. Dist.					S	San Elijo (Cardiff-Solana Beach)	1.1	Primary	3,700	15
	Joint Water Pollution										
	Control Plant	371.0	Primary	2,000	50	T	City of San Diego				
				2,600	65		Point Loma Plant	90.0	Primary	3,200	64
				3,600	60		Joint International Outfall	6.0	Chlorination	43	0



MUNICIPAL WASTE WATER DISCHARGES TO  
SOUTHERN CALIFORNIA COASTAL WATERS, 1971

Discharger						Ocean Outfall		Discharger	
Map Ltrs.	Name	Flow (mgd)	Type of Treatment	Length (m)	Depth (m)			Map Ltrs.	Name
A	Goleta San. Dist.	5.0	Primary	1,800	28			J	City of Los Angeles
B	City of Santa Barbara	8.0	Primary	1,100	14				Terminal Island
	Montecito San. Dist.	0.8	Secondary	440	11				Sunset Bch. San. Dist.
	Summerland San. Dist.	0.1	Secondary	240	6				Orange Co. San. Dist.
C	Carpinteria San. Dist.	1.3	Secondary	920	9			K	Plant No. 1
D	City of San Buenaventura							L	Plant No. 2
	Seaside Plant	2.7	Primary	800	11				
E	Eastside Plant	4.0	Secondary					M	City of Laguna Bch.
F	Port Hueneme San. Dist.	3.5	Primary	1,900	18			N	So. Laguna Bch. San.
G	City of Oxnard	12.0	Primary	1,750	16			O	Dana Point San. Dist.
								P	City of San Clemente
H	City of Los Angeles							Q	City of Oceanside
	Hyperion Plant	235.0	Primary	8,000	60				
		100.0	Secondary	(effluent)					
		5.0	Primary	11,000	100				
				(sludge)				R	County of San Diego
								S	Encina (Vista-Carl
									San Elijo (Cardiff
									Solana Beach)
I	Los Angeles Co. San. Dist.								
	Joint Water Pollution								
	Control Plant	371.0	Primary	2,000	50			T	City of San Diego



Ocean Outfall				
	Flow (mgd)	Type of Treatment	Length (m)	Depth (m)
t. .	8.1	Primary	730	18
	0.2	Primary	520	
			8,300	60
	45.0	Primary		
	10.0	Secondary		
	75.0	Primary		
Dist. .	2.3	Primary	980	25
	1.2	Secondary	520	18
	2.3	Secondary	1,200	12
	1.8	Secondary	210	9
	4.0	Secondary Oxidation Pond		
sbad)	4.7	Primary	5,300	30
-	1.1	Primary	3,700	15



2,600

65

Point Loma Plant

3,600

60

Joint International



	90.0	Primary	3,200	64
Outfall	6.0	Chlorination	43	0



# ENVIRONMENTAL IMPACT STATEMENT LEASE SALE NO. 68

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE

## GEOLOGICAL HAZARDS

## SOUTHERN CALIFORNIA OFFSHORE AREA

SCALE 1:760,000  
0 10,000 20,000 30,000 40,000 50,000 60,000 70,000 80,000 90,000 100,000 FEET

STATE PLANE COORDINATE SYSTEM  
Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6, have an x origin of 2,000,000 at 116°45' and y origin of 0.00 at 32°10'.  
The identification of the State Plane blocks are based on the numerical sequence N(North) starting at y origin, and the numerical sequence W(West) starting at the central meridian. Example Block 26 N-82 W.  
Each regular block in the State Plane System contains 5760 acres.

UNIVERSAL TRANSVERSE MERCATOR (UTM)  
The boundaries of the regular UTM blocks are 4800 international meters on a side and contain 2,304 hectares. The regular boundaries are defined in terms of x and y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid of 1966.  
The blocks are numbered starting with the first tier northerly of the equator as "N". The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100". Thus, a block numbered "N 200 E 96" would be the 200th block northerly of the equator and the 96th block westerly of the central meridian of the respective UTM zone.

Base compiled from U.S. Topographic Sheets Long Beach, and Santa Monica, 1:250,000 series. (United States)

The approximate position of a line 3 geographic miles from the coast is shown thus: The areas of the fractional blocks abutting that line have not been determined.  
Bathymetry in meters at selected intervals.

BLM-YN-ES-81-001-1792

### LEGEND

#### EARTHQUAKE EPICENTER OF KNOWN

#### INTENSITY (RICHTER SCALE) 1900-1974

- ... 4.0 TO 4.9
- ... 5.0 TO 5.9
- ... 6.0 TO 6.9
- ... GREATER THAN 6.9

#### PAST OR POTENTIAL MASS MOVEMENT AREA

- SLUMP/SLIDE
- SEDIMENT CREEP

#### SHALLOW FAULTS

- FAULT TRACE
- ACTIVE FAULT\*

\* ACTIVE FAULT DISPLACEMENT SHOWN WITHIN LAST 11,000 YEARS.

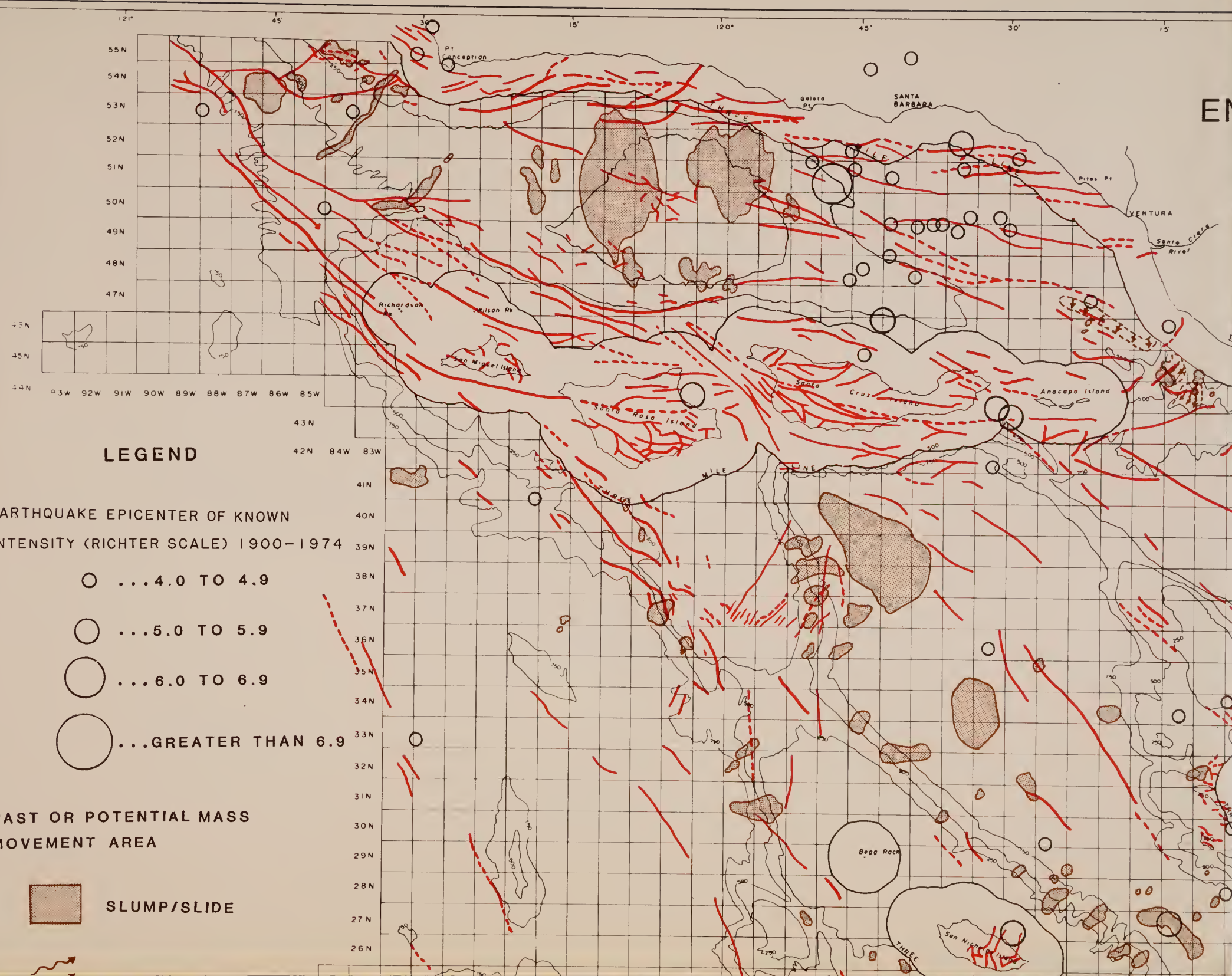
EARTHQUAKE EPICENTER SOURCE: TOPPOZADA AND PARKE, EARTHQUAKE EPICENTER MAP OF CALIFORNIA, MAP SHEET 39, CALIFORNIA DIVISION OF MINES AND GEOLOGY, 1978.

FAULT SOURCE: ZIONY et al.(1976), JENNINGS(1975), GREENE et al.(1975), JUNG(1979), FIELD AND RICHMOND(1980), YERKES et al.(1980), RICHMOND et al.(IN PREP).

MASS MOVEMENT SOURCE: GREENE et al.(1975), FIELD et al.(1977), FIELD AND EDWARDS(1980), RICHMOND et al.(IN PREP).

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# LEGEND

EARTHQUAKE EPICENTER OF KNOWN  
INTENSITY (RICHTER SCALE) 1900-1974

- ...4.0 TO 4.9
- ...5.0 TO 5.9
- ...6.0 TO 6.9
- ...GREATER THAN 6.9

PAST OR POTENTIAL MASS  
MOVEMENT AREA



SLUMP/SLIDE



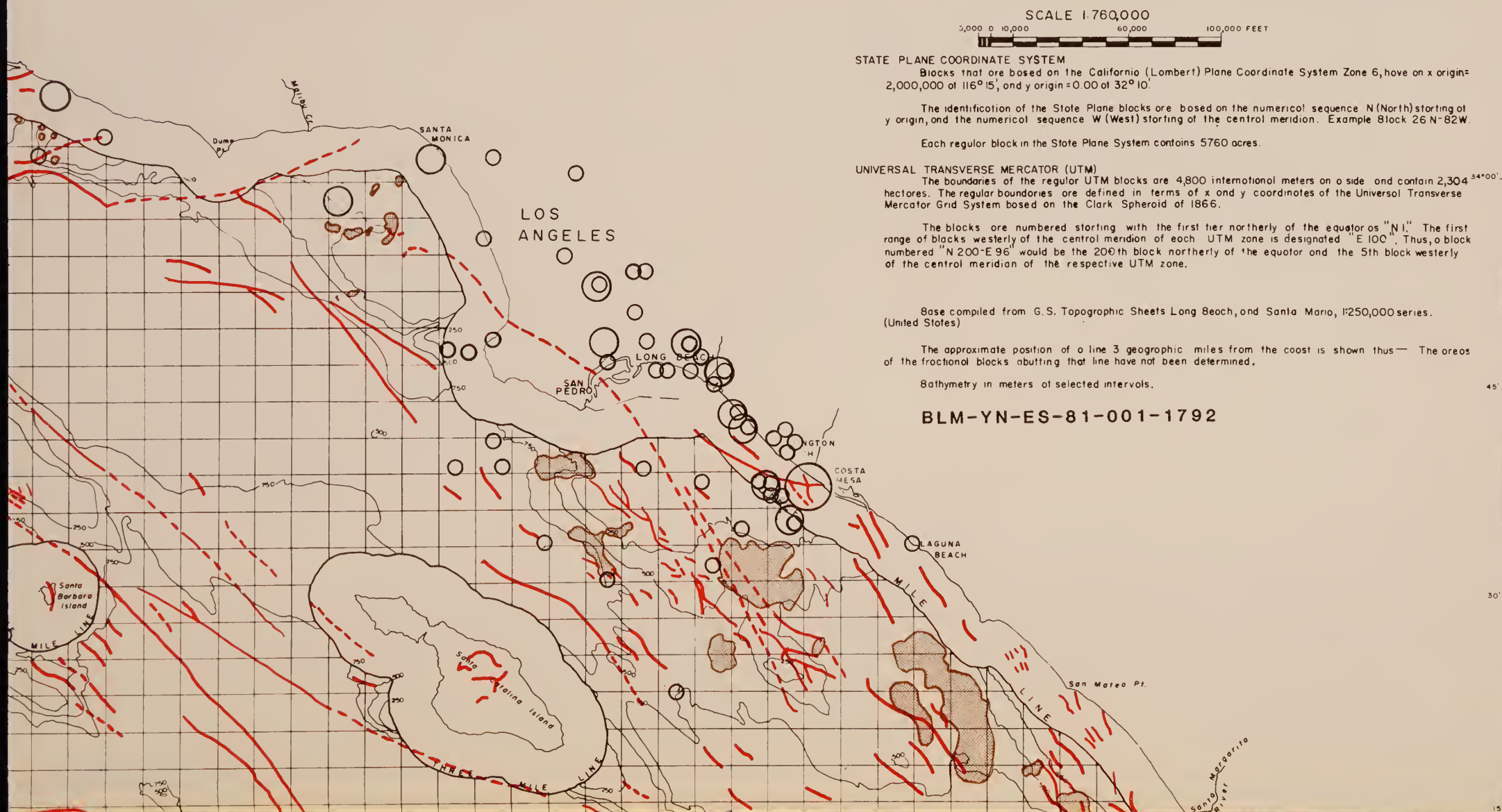
# ENVIRONMENTAL IMPACT STATEMENT

## LEASE SALE NO. 68

### GEOLOGICAL HAZARDS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE

### SOUTHERN CALIFORNIA OFFSHORE AREA





# SEDIMENT CREEP

## SHALLOW FAULTS

— FAULT TRACE

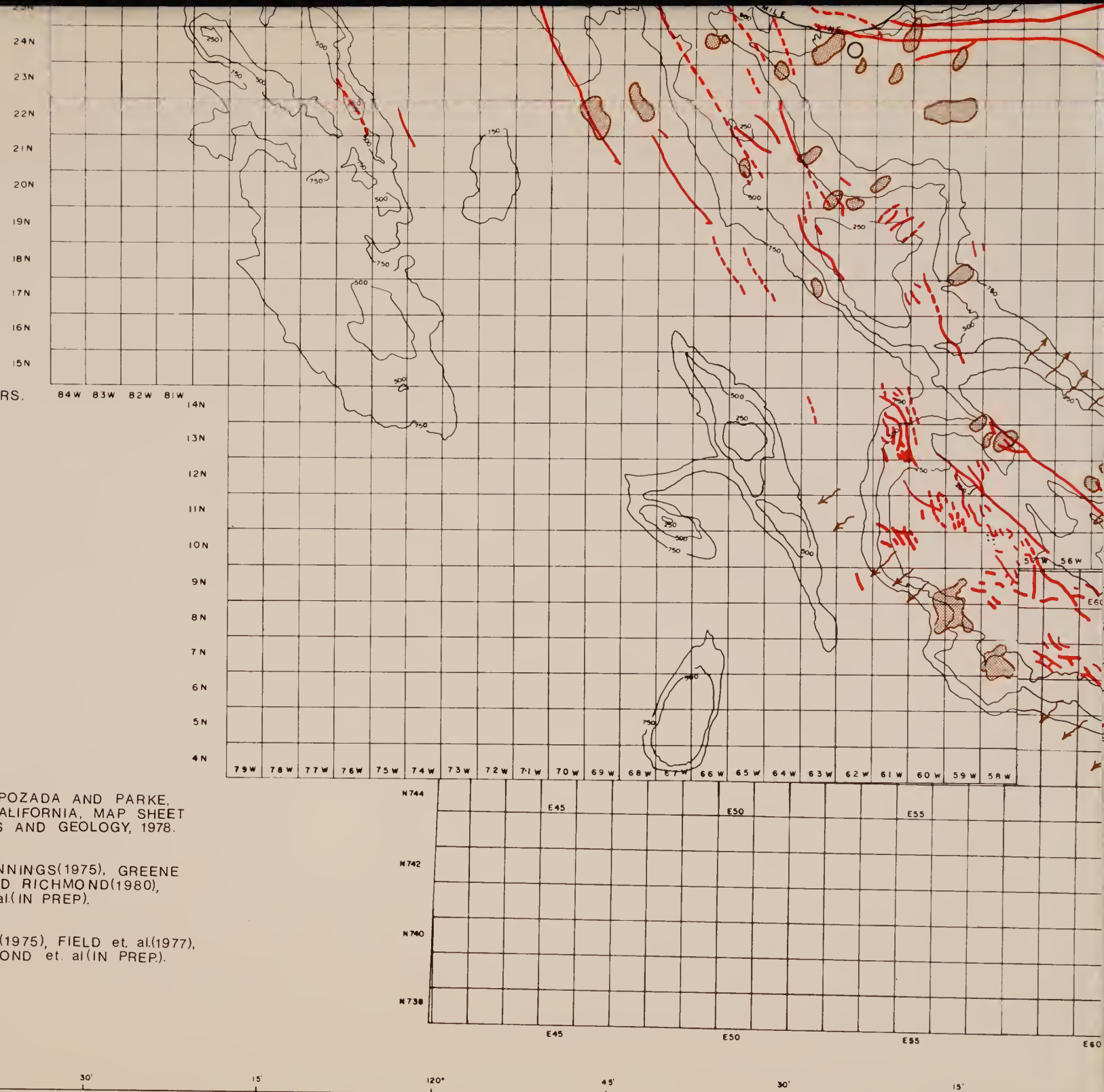
- - - ACTIVE FAULT\*

\* ACTIVE FAULT: DISPLACEMENT SHOWN  
WITHIN LAST 11,000 YEARS.

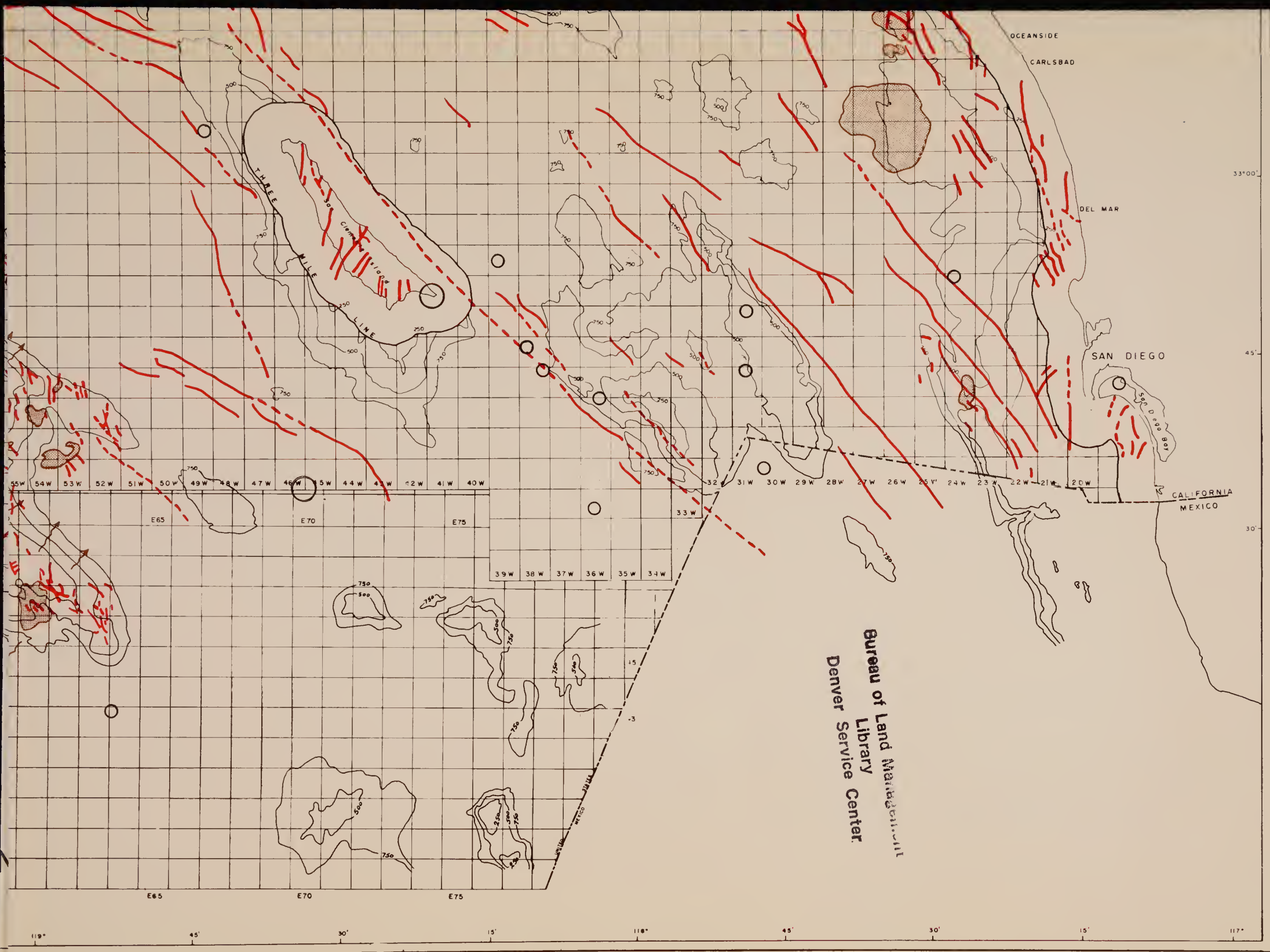
EARTHQUAKE EPICENTER SOURCE: TOPPOZADA AND PARKE,  
EARTHQUAKE EPICENTER MAP OF CALIFORNIA, MAP SHEET  
39, CALIFORNIA DIVISION OF MINES AND GEOLOGY, 1978.

FAULT SOURCE: ZIONY et. al.(1976), JENNINGS(1975), GREENE  
et. al.(1975), JUNGER(1979), FIELD AND RICHMOND(1980),  
YERKES et. al.(1980), RICHMOND et. al.(IN PREP).

MASS MOVEMENT SOURCE: GREENE et. al.(1975), FIELD et. al.(1977),  
FIELD AND EDWARDS(1980), RICHMOND et. al.(IN PREP).







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# ENVIRONMENTAL IMPACT STATEMENT LEASE SALE NO. 68

SHALLOW OIL AND GAS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE

SOUTHERN CALIFORNIA OFFSHORE AREA

SCALE 1:760,000

STATE PLANE COORDINATE SYSTEM  
Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6, have an origin of 2,000,000 at 116° 5' and y origin = 0.00 at 32° 10'.  
The identification of the State Plane blocks are based on the numerical sequence N(North) starting at y origin, and the numerical sequence W(West) starting at the central meridian. Example Block 26 N-62 W.  
Each regular block in the State Plane System contains 5760 acres.



UNIVERSAL TRANSVERSE MERCATOR (UTM)  
The boundaries of the regular UTM blocks are 4800 international meters on a side and contain 2,304 hectares. The regular boundaries are defined in terms of a x and y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid of 1866.  
The blocks are numbered starting with the first letter northerly of the equator as "N". The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100". Thus, a block numbered "N 200-E 96" would be the 200th block northerly of the equator and the 5th block westerly of the central meridian of the respective UTM zone.

Base compiled from G.S. Topographic Sheets Long Beach, and Santa Monica, 1:250,000 series (United States).

The approximate position of a line 3 geographic miles from the coast is shown thus: — The areas of the fractional blocks abutting that line have not been determined.  
Distances in meters at selected intervals.

BLM-YN-ES-81-001-1792

## LEGEND

-  GAS AND OIL SEEPS
-  SHALLOW GAS ZONE

OIL AND GAS SOURCE: WILKINSON (1971), FISCHER AND STEVENSON (1973), FISCHER (1975), GREENE et. al. (1975) RICHMOND et. al. (IN PREP)

SHALLOW GAS ZONE SOURCE: RICHMOND et. al. (IN PREP)

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# ENVIRONMENTAL IMPACT STATEMENT

## LEASE SALE NO. 68

### SHALLOW OIL AND GAS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE

### SOUTHERN CALIFORNIA OFFSHORE AREA

SCALE 1:760,000  
3,000 0 10,000 100,000 FEET

#### STATE PLANE COORDINATE SYSTEM

Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6, have an x origin = 2,000,000 at 116° 15', and y origin = 0.00 at 32° 10'.

The identification of the State Plane blocks are based on the numerical sequence N(North) starting at y origin, and the numerical sequence W(West) starting of the central meridian. Example Block 26 N-82 W.

Each regular block in the State Plane System contains 5760 acres.

#### UNIVERSAL TRANSVERSE MERCATOR (UTM)

The boundaries of the regular UTM blocks are 4,800 international meters on a side and contain 2,304 hectares. The regular boundaries are defined in terms of x and y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid of 1866.

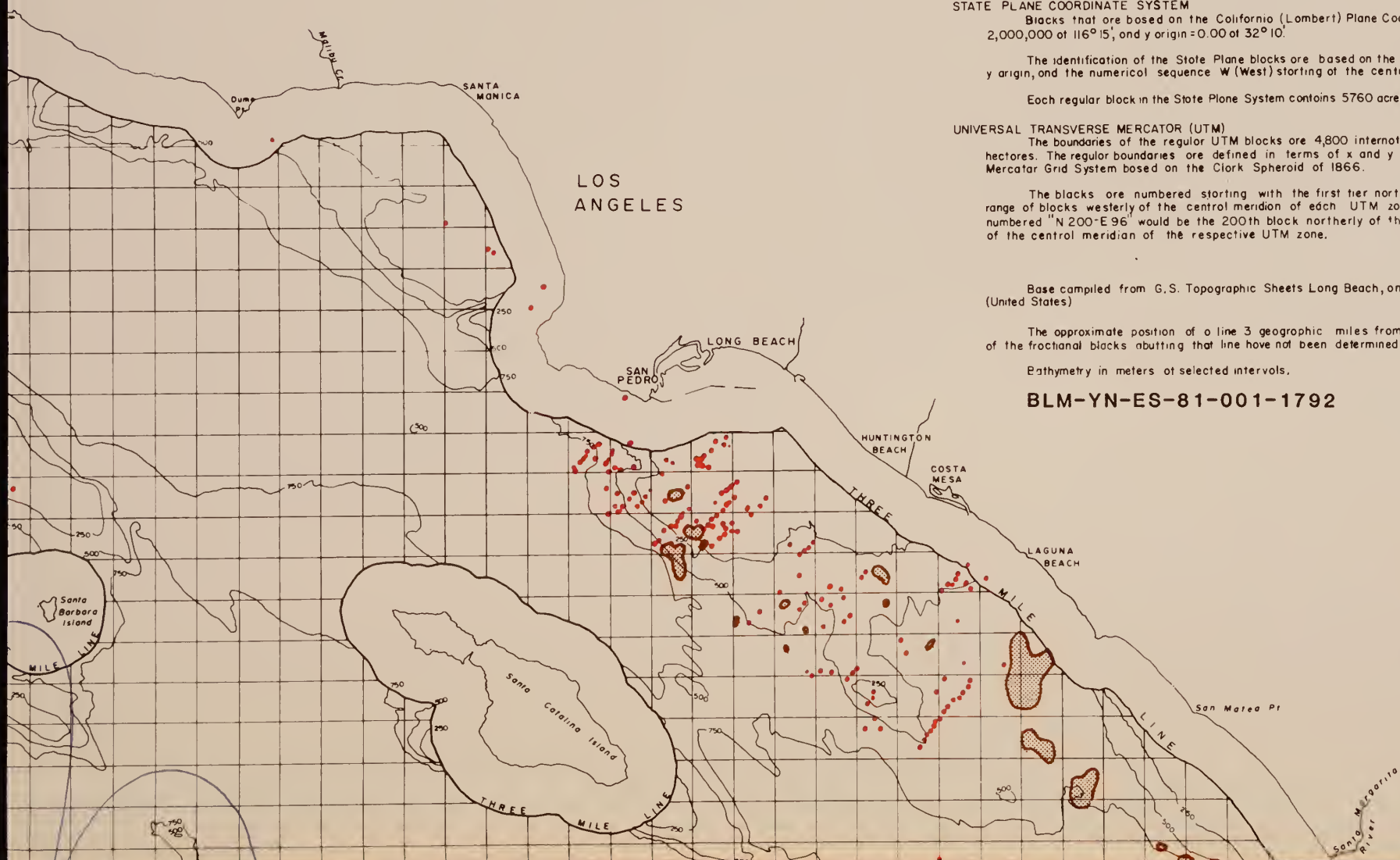
The blocks are numbered starting with the first tier northerly of the equator as "N1." The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100." Thus, a block numbered "N 200-E 96" would be the 200th block northerly of the equator and the 5th block westerly of the central meridian of the respective UTM zone.

Base compiled from G.S. Topographic Sheets Long Beach, and Santa Maria, 1:250,000 series. (United States)

The approximate position of a line 3 geographic miles from the coast is shown thus — The areas of the fractional blocks abutting that line have not been determined.

Bathymetry in meters at selected intervals.

**BLM-YN-ES-81-001-1792**





33°

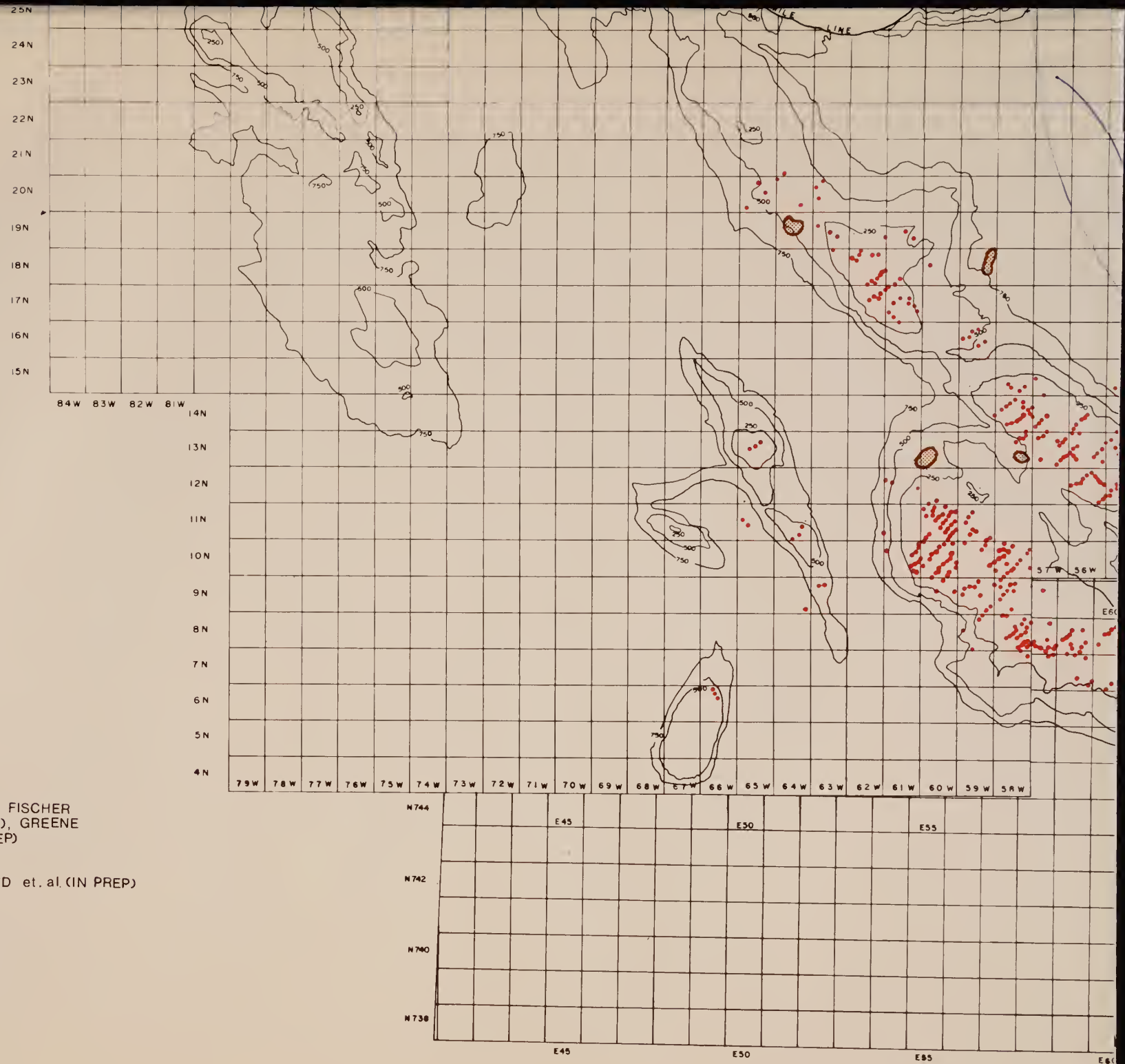
4°

3

5

OIL AND GAS SOURCE: WILKINSON (1971), FISCHER  
AND STEVENSON (1973), FISCHER (1975), GREENE  
et. al.(1975) RICHMOND et. al.(IN PREP)

SHALLOW GAS ZONE SOURCE: RICHMOND et. al.(IN PREP)



121°

45°

30°

15°

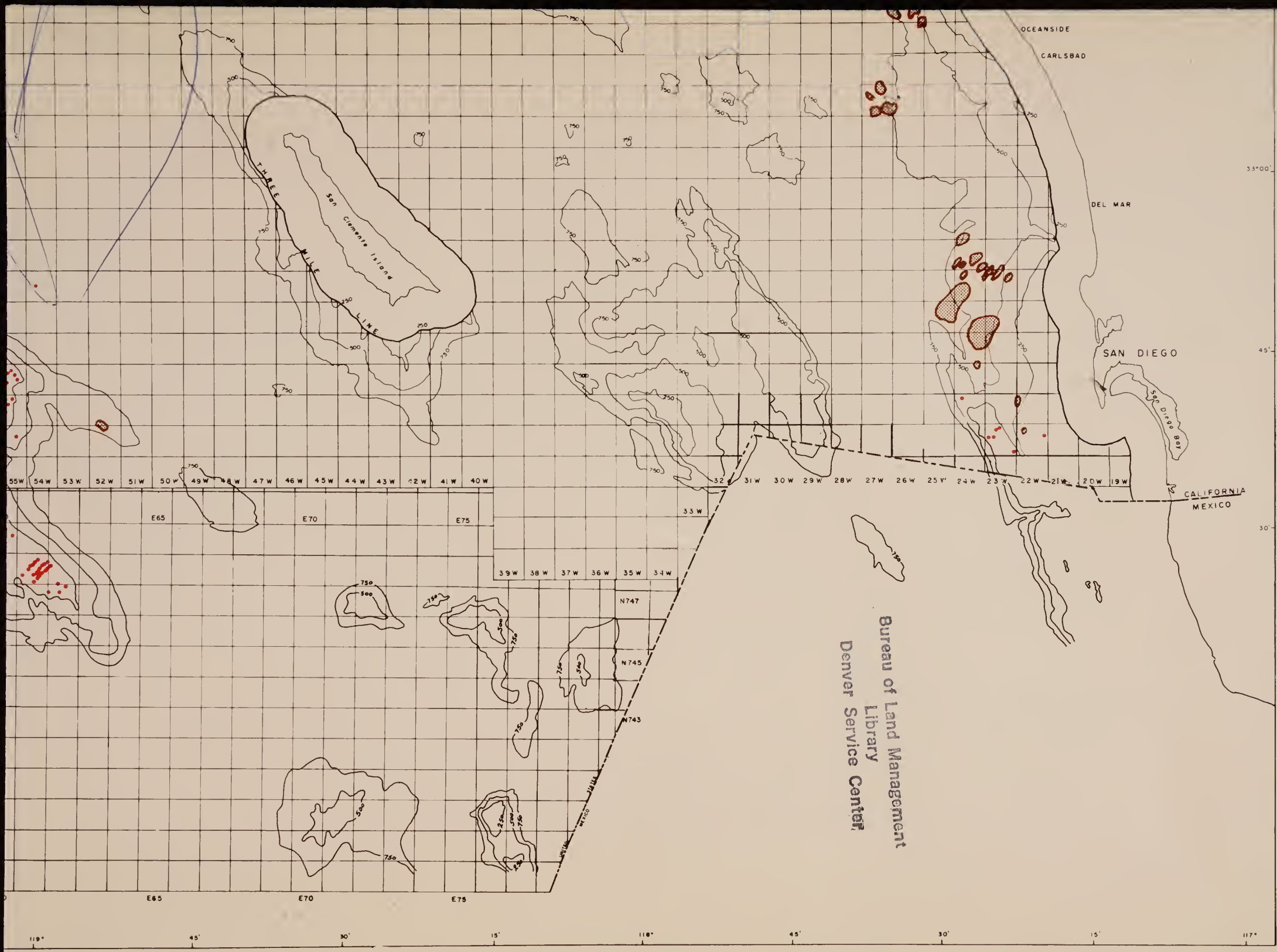
120°

45°

30°

15°







# ENVIRONMENTAL IMPACT STATEMENT LEASE SALE NO. 68

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE

## TRACT STATUS

## SOUTHERN CALIFORNIA OFFSHORE AREA

SCALE 1:760,000

STATE PLANE COORDINATE SYSTEM  
Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6, have an x origin of 2,000,000 at 116° 51' and a y origin of 0 00 at 32° 10'.  
The identification of the State Plane blocks are based on the numerical sequence N(North) starting at y origin, and the numerical sequence W(West) starting at the central meridian. Example Block 26 N 82 W.  
Each regular block in the State Plane System contains 5760 acres.

UNIVERSAL TRANSVERSE MERCATOR (UTM)  
The boundaries of the regular UTM blocks are 4,800 international meters on a side and contain 2,304 hectares. The regular boundaries are defined in terms of a and y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid at 1866.  
The blocks are numbered starting with the first tier northerly of the equator as "N". The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100". Thus, a block numbered "N 200 E 96" would be the 200th block northerly of the equator and the 5th block westerly of the central meridian of the respective UTM zone.

Base compiled from G.S. Topographic Sheets Long Beach, and Santa Monica, R250,000 series.  
(United States)

The approximate position of a line 3 geographic miles from the coast is shown thus — The areas of the fractional blocks abutting that line have not been determined.

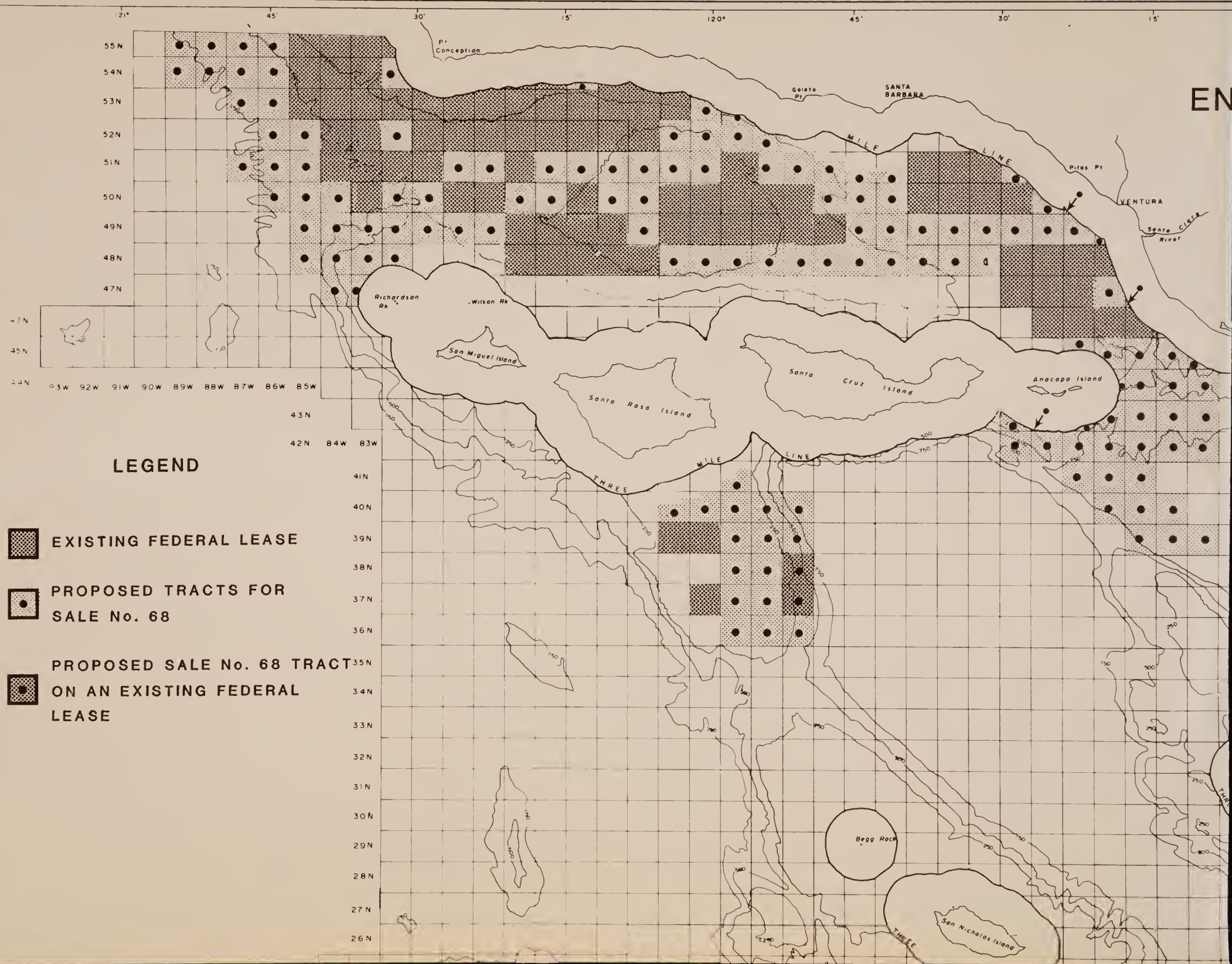
Bathymetry in meters at selected intervals.

BLM-YN-ES-81-001-1792

- LEGEND**
- EXISTING FEDERAL LEASE
  - PROPOSED TRACTS FOR SALE No. 68
  - PROPOSED SALE No. 68 TRACT ON AN EXISTING FEDERAL LEASE

Bureau of Land Management  
Denver Service Center







# ENVIRONMENTAL IMPACT STATEMENT

## LEASE SALE NO. 68

### TRACT STATUS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE

### SOUTHERN CALIFORNIA OFFSHORE AREA

SCALE 1:760,000  
5,000 0 10,000 60,000 100,000 FEET

#### STATE PLANE COORDINATE SYSTEM

Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6, have an x origin = 2,000,000 at 116° 15', and y origin = 0.00 at 32° 10'.

The identification of the State Plane blocks are based on the numerical sequence N (North) starting at y origin, and the numerical sequence W (West) starting at the central meridian. Example Block 26 N-82 W.

Each regular block in the State Plane System contains 5760 acres

#### UNIVERSAL TRANSVERSE MERCATOR (UTM)

The boundaries of the regular UTM blocks are 4,800 international meters on a side and contain 2,304 hectares. The regular boundaries are defined in terms of x and y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid of 1866.

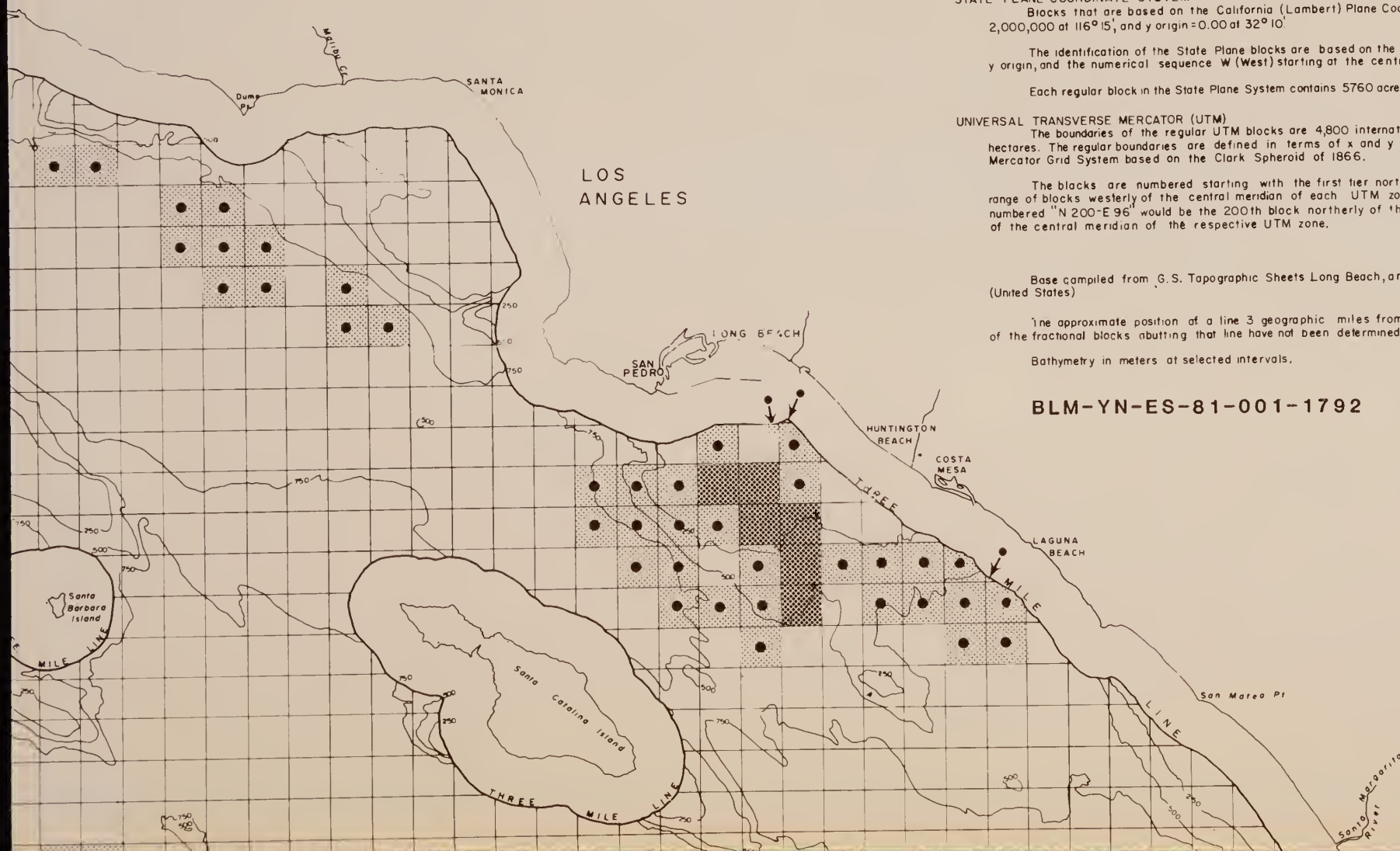
The blocks are numbered starting with the first tier northerly of the equator as "N1". The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100". Thus, a block numbered "N 200-E 96" would be the 200th block northerly of the equator and the 5th block westerly of the central meridian of the respective UTM zone.

Base compiled from G.S. Topographic Sheets Long Beach, and Santa Maria, 1:250,000 series. (United States)

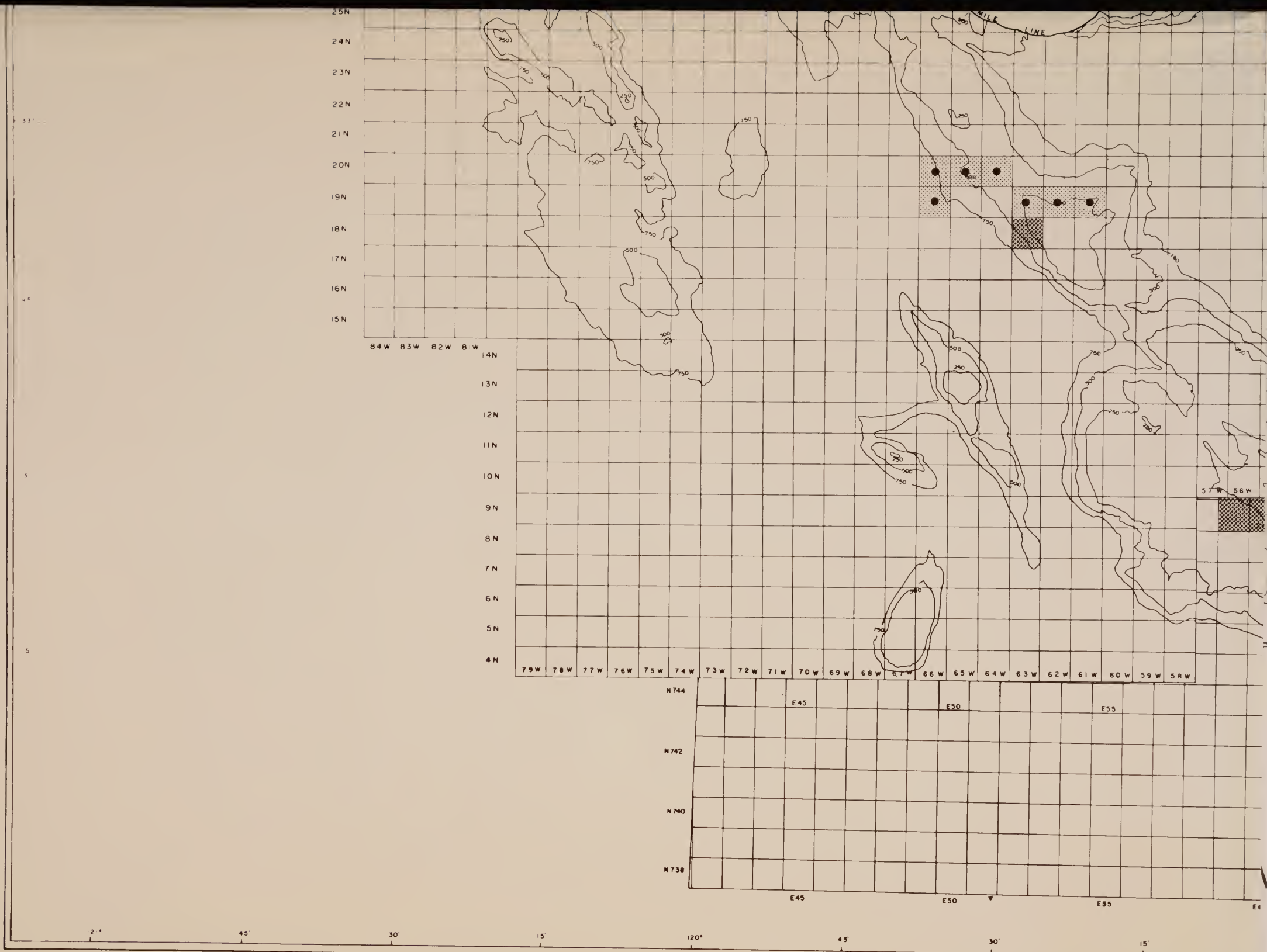
The approximate position of a line 3 geographic miles from the coast is shown thus — The areas of the fractional blocks abutting that line have not been determined.

Bathymetry in meters at selected intervals.

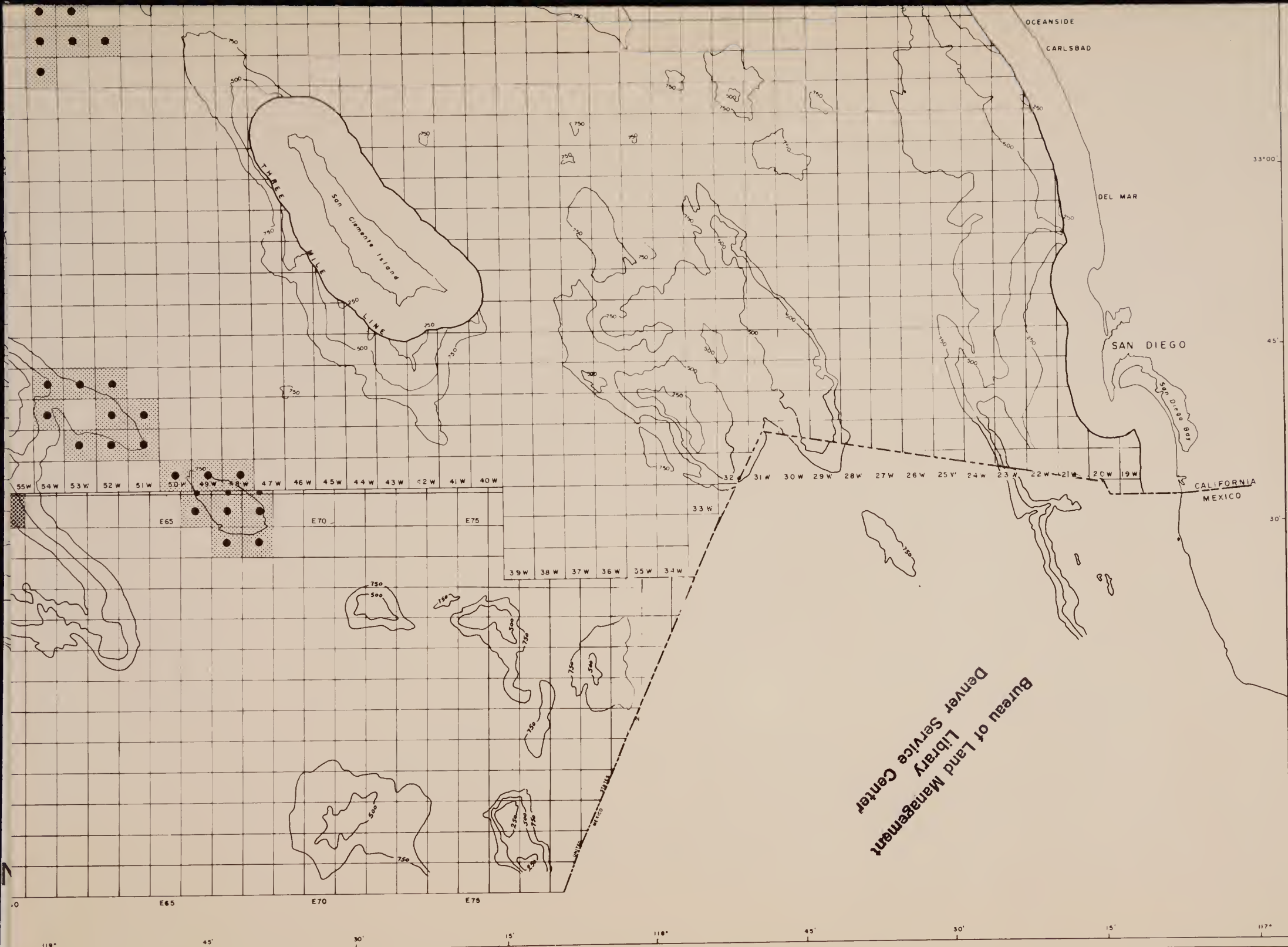
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# ENVIRONMENTAL IMPACT STATEMENT LEASE SALE NO. 68

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
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PACIFIC OUTER CONTINENTAL SHELF OFFICE

## SOUTHERN CALIFORNIA OFFSHORE AREA

### TRANSPORTATION

SCALE 1:760,000

STATE PLANE COORDINATE SYSTEM  
Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6, have an x origin of 2,000,000 at 116° 45' W, and a y origin of 0.00 at 32° 10' N.  
The identification of the State Plane blocks are based on the numerical sequence N (North) starting at y origin, and the numerical sequence W (West) starting at the central meridian. Example Block 26 N-82 W.  
Each regular block in the State Plane System contains 5760 acres.

UNIVERSAL TRANSVERSE MERCATOR (UTM)  
The boundaries of the regular UTM blocks are 4,800 international meters on a side and contain 2,304 hectares. The regular boundaries are defined in terms of x and y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid of 1866.

The blocks are numbered starting with the first tier northerly of the equator as "N 1". The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100". Thus, a block numbered "N 200 E 96" would be the 200th block northerly of the equator and the 5th block westerly of the central meridian of the respective UTM zone.

Base compiled from G.S. Topographic Sheets Long Beach, and Santa Monica, 1:250,000 series (United States).

The approximate position of a line 3 geographic miles from the coast is shown thus: The areas of the fractional blocks abutting that line have not been determined.

Bathymetry in meters at selected intervals.

BLM-YN-ES-81-001-1792

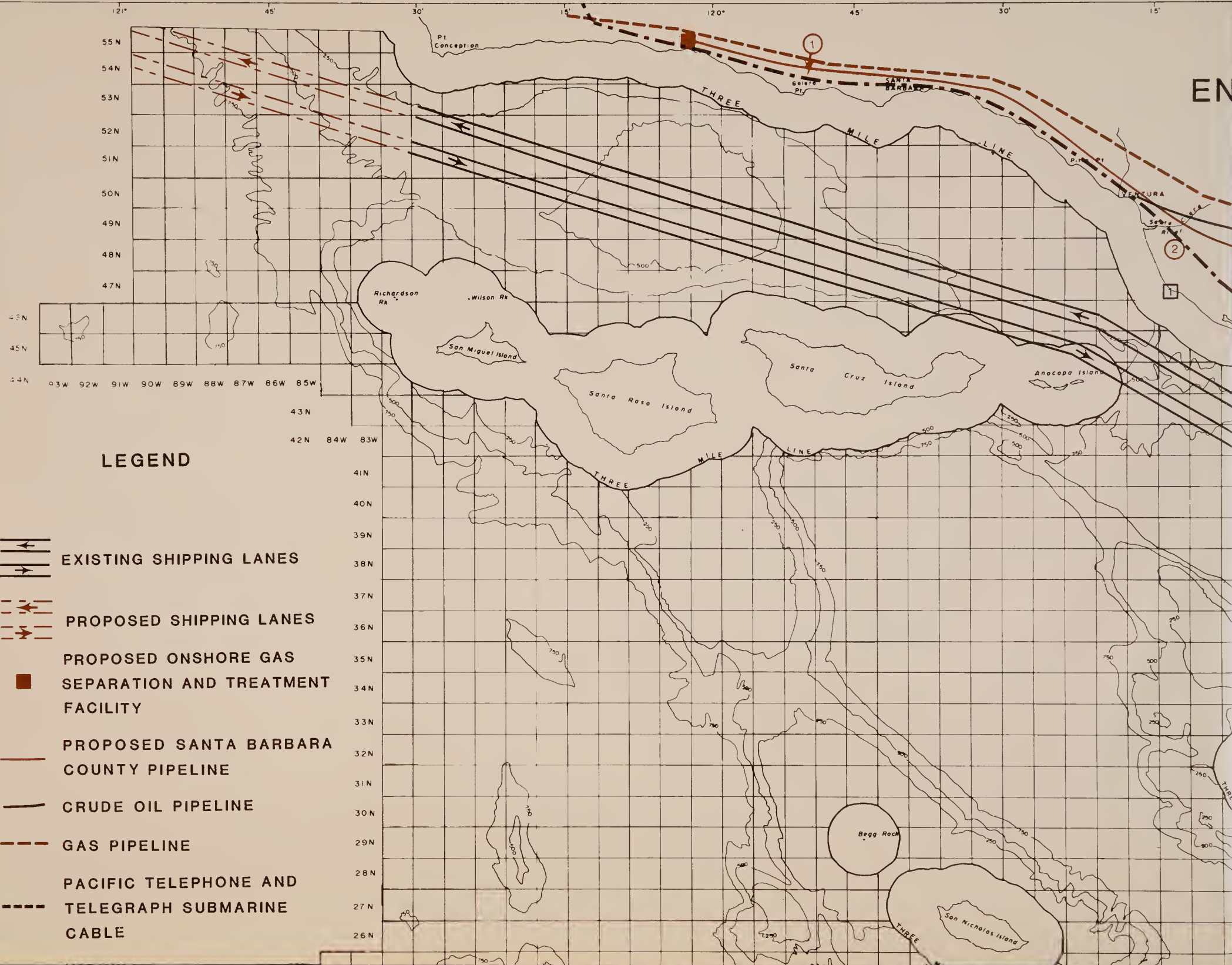
### LEGEND

- EXISTING SHIPPING LANES
- PROPOSED SHIPPING LANES
- PROPOSED ONSHORE GAS SEPARATION AND TREATMENT FACILITY
- PROPOSED SANTA BARBARA COUNTY PIPELINE
- CRUDE OIL PIPELINE
- GAS PIPELINE
- PACIFIC TELEPHONE AND TELEGRAPH SUBMARINE CABLE
- HIGHWAY
- HARBOR
- 1. Port Hueneme
- 2. Los Angeles
- 3. Long Beach
- 4. San Diego
- REFINERY
- AIRPORT
- 1. Santa Barbara Municipal
- 2. Oxnard
- 3. Los Angeles International
- 4. Long Beach Municipal
- 5. John Wayne/Orange County
- 6. San Diego International

PRECAUTIONARY ZONE

Bureau of Land Management  
Denver Service Center  
Library  
Service Center







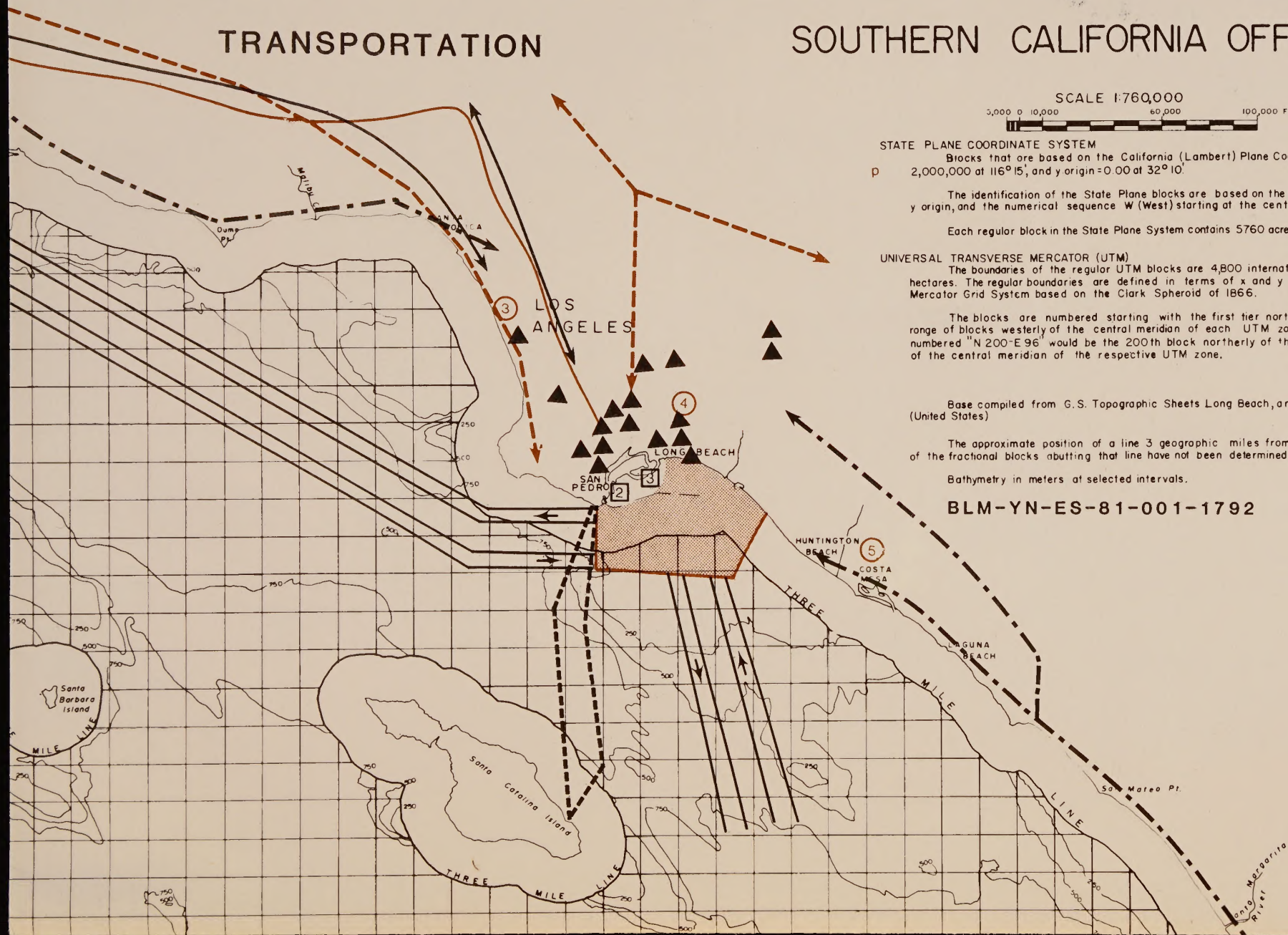
# ENVIRONMENTAL IMPACT STATEMENT

## LEASE SALE NO. 68

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
PACIFIC OUTER CONTINENTAL SHELF OFFICE

### SOUTHERN CALIFORNIA OFFSHORE AREA

#### TRANSPORTATION



SCALE 1:760,000  
3,000 0 10,000 60,000 100,000 FEET

STATE PLANE COORDINATE SYSTEM  
Blocks that are based on the California (Lambert) Plane Coordinate System Zone 6, have an x origin = 2,000,000 at 116°15', and y origin = 0.00 at 32°10'.

The identification of the State Plane blocks are based on the numerical sequence N (North) starting at y origin, and the numerical sequence W (West) starting at the central meridian. Example Block 26 N-82 W.

Each regular block in the State Plane System contains 5760 acres.

UNIVERSAL TRANSVERSE MERCATOR (UTM)  
The boundaries of the regular UTM blocks are 4,800 international meters on a side and contain 2,304<sup>34'00"</sup> hectares. The regular boundaries are defined in terms of x and y coordinates of the Universal Transverse Mercator Grid System based on the Clark Spheroid of 1866.

The blocks are numbered starting with the first tier northerly of the equator as "N1." The first range of blocks westerly of the central meridian of each UTM zone is designated "E 100." Thus, a block numbered "N 200-E 96" would be the 200th block northerly of the equator and the 5th block westerly of the central meridian of the respective UTM zone.

Base compiled from G.S. Topographic Sheets Long Beach, and Santa Maria, 1:250,000 series. (United States)

The approximate position of a line 3 geographic miles from the coast is shown thus —. The areas of the fractional blocks abutting that line have not been determined.

Bathymetry in meters at selected intervals.

BLM-YN-ES-81-001-1792



# **HIGHWAY**



**HARBOR**

1. Port Hueneme
2. Los Angeles
3. Long Beach
4. San Diego



**REFINERY**

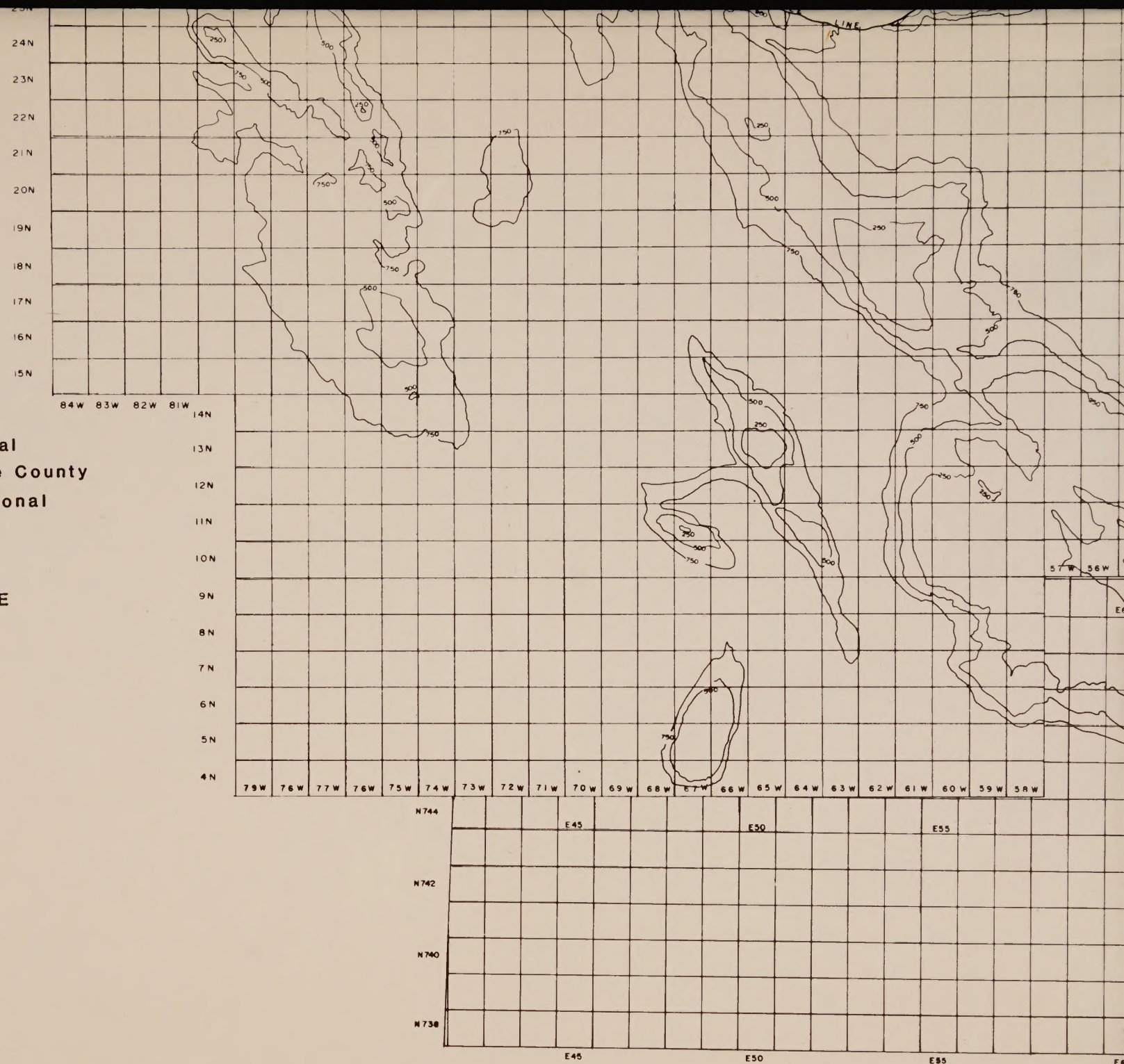


**AIRPORT**

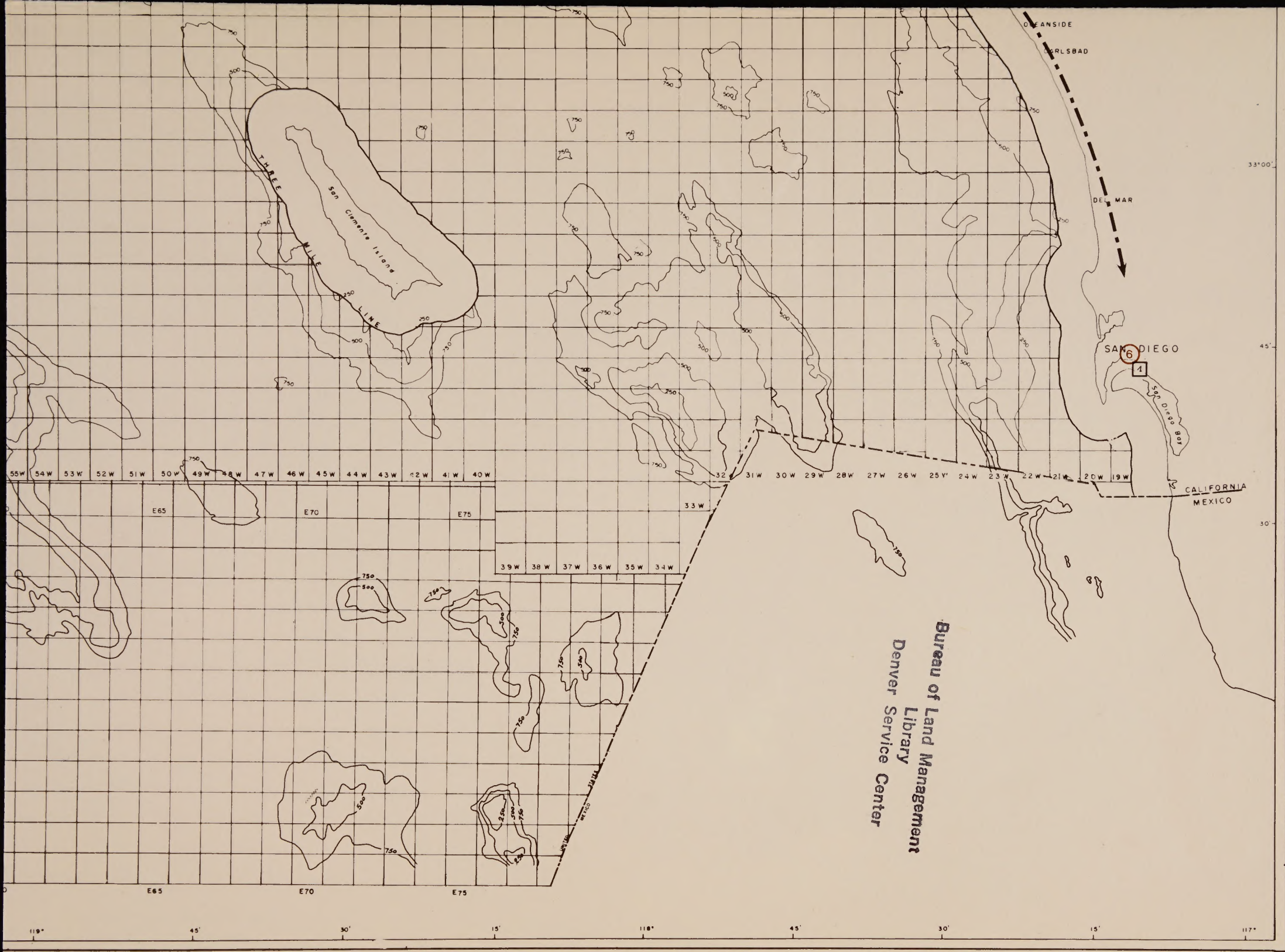
1. Santa Barbara Municipal
2. Oxnard
3. Los Angeles International
4. Long Beach Municipal
5. John Wayne/Orange County
6. San Diego International



**PRECAUTIONARY ZONE**









OCS  
no.68  
DES  
1982  
v.2

Borrower's Card

1982 Outer Continental shelf oil and gas lease  
sale offshore Southern California.

Date Loaned	Borrower	Division	Date Ret'd